

CLAIMS

1. A solid electrolyte composition for cathode comprising a polyether polymer, an active material of positive electrode, conductive fine particles, an electrolyte salt compound and a photopolymerization initiator, said photopolymerization initiator being contained in an amount of 2 to 30 parts by weight on the basis of 100 parts by weight of the polyether polymer.

2. The solid electrolyte composition for cathode according to claim 1, wherein said photopolymerization initiator is contained in an amount of 3 to 15 parts by weight on the basis of 100 parts by weight of the polyether polymer.

3. The solid electrolyte composition for cathode according to claim 1, wherein said polyether polymer is a copolymer of a photo-crosslinkable oxirane monomer.

4. The solid electrolyte composition for cathode according to claim 1, wherein said polyether polymer has a weight-average molecular weight of 100000 to 1500000.

5. A cathode film for batteries produced by subjecting the solid electrolyte composition as claimed in claim 1 to molding and then a crosslinking reaction by irradiation of an ultraviolet light.

6. A process for producing a cathode film for batteries, comprising the steps of:

blending a polyether polymer containing an electrolyte salt compound, an active material of positive electrode, conductive fine particles and a photopolymerization initiator with each other, said photopolymerization initiator being present in an amount of 2 to 30 parts by weight on the basis of 100 parts by weight of the polyether polymer;

molding the resultant blended mixture into a film; and

subjecting the film to a crosslinking reaction by irradiating an
ultraviolet light.

7. The process according to claim 6, wherein a cumulative dose of the
5 ultraviolet light irradiated is in the range of 10000 to 100000 mJ/cm².